



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/900,063A
Source: 1600
Date Processed by STIC: 6/12/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

RECEIVED
JUN 19 2003
TECH CENTER 1800/3

1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/900,063A

DATE: 06/12/2003

TIME: 08:07:21

Input Set : A:\EP.txt

Output Set: N:\CRF4\06122003\I900063A.raw

5 <110> APPLICANT: Rothschild, Max F.
 7 Vincent, Amy L.
 9 Tuggle, Christopher K.
 13 <120> TITLE OF INVENTION: PROLACTIN RECEPTOR GENE AS A GENETIC MARKER FOR INCREASED
 LITTER SIZE IN

14 ANIMALS

18 <130> FILE REFERENCE: P02285UD5

22 <140> CURRENT APPLICATION NUMBER: US 09/900,063A

24 <141> CURRENT FILING DATE: 2001-07-06

28 <150> PRIOR APPLICATION NUMBER: US 08/812,208

30 <151> PRIOR FILING DATE: 1997-03-06

34 <150> PRIOR APPLICATION NUMBER: US 08/742,805

36 <151> PRIOR FILING DATE: 1996-11-01

40 <150> PRIOR APPLICATION NUMBER: US 60/022,180

42 <151> PRIOR FILING DATE: 1996-07-19

46 <160> NUMBER OF SEQ ID NOS: 18

50 <170> SOFTWARE: PatentIn version 3.1

54 <210> SEQ ID NO: 1

56 <211> LENGTH: 20

58 <212> TYPE: DNA

60 <213> ORGANISM: Porcine

64 <400> SEQUENCE: 1

65 cccaaaacag caggagaacg

20

68 <210> SEQ ID NO: 2

70 <211> LENGTH: 20

72 <212> TYPE: DNA

74 <213> ORGANISM: Porcine

78 <400> SEQUENCE: 2

79 ggcagaatgg taaaaatgg

20

82 <210> SEQ ID NO: 3

84 <211> LENGTH: 492

86 <212> TYPE: DNA

88 <213> ORGANISM: Porcine

92 <220> FEATURE:

94 <221> NAME/KEY: allele

96 <222> LOCATION: (240)..(240)

98 <223> OTHER INFORMATION: G/A polymorphic site

102 <400> SEQUENCE: 3

103 aagtcaacaa agatggagca ctggcggtgc tcccaaaca gcaggagaac ggcgaccggc

60

105 cggagaaggc tggcgccct gaaaccagca aggaatacgc ccaggtgtcc cgggtgatgg

120

107 ataaccacat cctgggttta gtgcaggatc cgcgagctcg aaacgtggct ccgtttaaag

180

109 aaccaaccaa ggagaccccg ccatccggc cgccagaatcc agctgcggaa gacctggcg

240

111 gcttcaccac ggccccggc cactgcagac acccgtggg tgggtctggat tacctcgatc

300

113 ccgcaggctt tatgcactcc tttcagtggat agcttggatc atggatgtat gggttacaag

360

per sequence Rules, use "r"
 r = a or g

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/900,063A

DATE: 06/12/2003

TIME: 08:07:21

Input Set : A:\EP.txt

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115 gtgggggtttt tttcaggctcg cactacgtga aatgcactct accagagaaaa gctcgaaaat 420
 117 gggggtagaa tgacactacc cagactcaca gttcactctt cttcatgctc cattttcaac 480
 119 cacttgcctc tt 492
 122 <210> SEQ ID NO: 4
 124 <211> LENGTH: 20
 126 <212> TYPE: DNA
 128 <213> ORGANISM: Unknown
 132 <220> FEATURE:
 134 <223> OTHER INFORMATION: Human and rabbit cDNA sequences encoding the prolactin receptor
 135 were used to design the degenerate primer
 137 <220> FEATURE:
 139 <221> NAME/KEY: misc_difference
 141 <222> LOCATION: (13)..(13)
 143 <223> OTHER INFORMATION: C/T *use "y" y = cor +*
 147 <400> SEQUENCE: 4
 148 tcacaaggc aaaaagatg 20
 151 <210> SEQ ID NO: 5
 153 <211> LENGTH: 20
 155 <212> TYPE: DNA
 157 <213> ORGANISM: Unknown
 161 <220> FEATURE:
 163 <223> OTHER INFORMATION: Human and rabbit cDNA sequences encoding the prolactin receptor
 164 were used to design the degenerate primer
 166 <220> FEATURE:
 168 <221> NAME/KEY: misc_difference
 170 <222> LOCATION: (3)..(3)
 172 <223> OTHER INFORMATION: G/A *use "r"*
 176 <220> FEATURE:
 178 <221> NAME/KEY: misc_difference
 180 <222> LOCATION: (9)..(9)
 182 <223> OTHER INFORMATION: G/A *use "r"*
 186 <220> FEATURE:
 188 <221> NAME/KEY: misc_difference
 190 <222> LOCATION: (16)..(16)
 192 <223> OTHER INFORMATION: G/A *use "r"*
 196 <400> SEQUENCE: 5
 197 tggagaaaaga ggcaagtgg 20
 200 <210> SEQ ID NO: 6
 202 <211> LENGTH: 20
 204 <212> TYPE: DNA
 206 <213> ORGANISM: Porcine
 210 <400> SEQUENCE: 6
 211 cggccgcaga atcctgctgc 20
 214 <210> SEQ ID NO: 7
 216 <211> LENGTH: 24
 218 <212> TYPE: DNA
 220 <213> ORGANISM: Porcine
 224 <400> SEQUENCE: 7
 225 acccccacccttt gtaaccatc atcc 24

RAW SEQUENCE LISTING DATE: 06/12/2003
 PATENT APPLICATION: US/09/900,063A TIME: 08:07:21

Input Set : A:\EP.txt
 Output Set: N:\CRF4\06122003\I900063A.raw

228 <210> SEQ ID NO: 8		
230 <211> LENGTH: 18		
232 <212> TYPE: DNA		
234 <213> ORGANISM: Porcine		
238 <400> SEQUENCE: 8		
239 caaggtggga acatgagt	18	
242 <210> SEQ ID NO: 9		
244 <211> LENGTH: 20		
246 <212> TYPE: DNA		
248 <213> ORGANISM: Porcine		
252 <400> SEQUENCE: 9		
253 aatcctttta tttttggccc	20	
256 <210> SEQ ID NO: 10		
258 <211> LENGTH: 20		
260 <212> TYPE: DNA		
262 <213> ORGANISM: Porcine		
266 <400> SEQUENCE: 10		
267 gattattgtc tgggcagtgg	20	
270 <210> SEQ ID NO: 11		
272 <211> LENGTH: 20		
274 <212> TYPE: DNA		
276 <213> ORGANISM: Porcine		
280 <400> SEQUENCE: 11		
281 aatcctttta tttttggccc	20	
284 <210> SEQ ID NO: 12		
286 <211> LENGTH: 20		
288 <212> TYPE: DNA		
290 <213> ORGANISM: Porcine		
294 <400> SEQUENCE: 12		
295 gattattgtc tgggcagtgg	20	
298 <210> SEQ ID NO: 13		
300 <211> LENGTH: 23		
302 <212> TYPE: DNA		
304 <213> ORGANISM: Porcine		
308 <400> SEQUENCE: 13		
309 ctatttcaca aaaactgcgc tac	23	
312 <210> SEQ ID NO: 14		
314 <211> LENGTH: 566		
316 <212> TYPE: DNA		
318 <213> ORGANISM: Porcine		
322 <220> FEATURE:		
324 <221> NAME/KEY: misc_feature		
326 <222> LOCATION: (36)..(36)		
328 <223> OTHER INFORMATION: n = unknown at amino acid position 36		
332 <400> SEQUENCE: 14		
W--> 333 gattattgtc tgggcagtgg tcttctctgt ctatcnaccc cccctccatt catggctctc	60	
335 agggtataat ggccaaaaaa aagacaagao aaaaatgatg gaaacctaca gataattyaa	120	
337 gcacctcatt ttgcatttag ctgcatttagc cataaaaaaa aaaaaaaaaa cttttctca	180	
339 gtgctagaaa aaaacagaat agactcattt gaaactgatc ttctctctac caaaggaggt	240	

? This is a nucleotide sequence.

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Input Set : A:\EP.txt
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341	agcgcagttg	tgaaatagta	aacgtctgac	aagaacagca	aataatccca	ctagtaattt	300											
343	cagaatccgc	ctcctcaatt	agccagaatt	cactgtgatg	ctggcctcta	taatttattat	360											
345	ttgtcttcac	cactgattag	tttcacatca	tgaaaattgc	atgcattta	gtttcaccta	420											
347	gcctcagaac	caaccctaatt	tcctacctgc	catatccctg	tagcagctat	tcgaagatca	480											
349	caaggtggaa	acatgtgtya	tttatctttt	ctcttacatt	attttaggc	atggtggcct	540											
351	gcatccgggc	caaaaataaa	aggatt				566											
354	<210>	SEQ ID NO:	15															
356	<211>	LENGTH:	518															
358	<212>	TYPE:	DNA															
360	<213>	ORGANISM:	Porcine															
364	<220>	FEATURE:																
366	<221>	NAME/KEY:	misc_feature															
368	<222>	LOCATION:	(49)..(49)															
370	<223>	OTHER INFORMATION:	n = unknown in	amino acid position	49													
374	<220>	FEATURE:																
376	<221>	NAME/KEY:	misc_feature															
378	<222>	LOCATION:	(67)..(67)															
380	<223>	OTHER INFORMATION:	n = unknown in	amino acid position	67													
384	<400>	SEQUENCE:	15															
W-->	385	gtacacacac	acacacacac	acacacacac	acacacacc	gttaagctnt	60											
	387	catgc	cgaggccac	ccatagagga	gtgtgggtgga	gggtgccttg	120											
	389	ccctgc	cctacaccca	ctagcctcaa	gatgtcatcc	ctggccctggc	180											
	391	ctgttctgt	caccagcaga	atggtccagt	cattgagcgg	accttcataat	240											
	393	ggcttcggc	tttttcttagg	acagtacactt	ccgggaaac	ctgagatctt	300											
	395	tctcccgaaa	aggaaacatt	cgctgtctgg	tggaaagcgg	ggccggatgg	360											
	397	accaactaga	cgctgactta	ccacaaggaa	gggtaagcat	tgcgtgtct	420											
	399	cacacgatg	ttctctctct	gtggggccaga	ggaacactgc	ttctgggtt	480											
	401	gctttggagt	tcccgtcatg	gctcagtgg	aacgaatc		518											
	404	<210>	SEQ ID NO:	16														
	406	<211>	LENGTH:	133														
	408	<212>	TYPE:	DNA														
	410	<213>	ORGANISM:	Homo sapiens														
	414	<400>	SEQUENCE:	16														
	415	gacagttacc	tcctggaaaa	cctgagatct	ttaaatgtcg	ttctcccaat	60											
	417	tcacctgtctg	gtggaggcct	gggacagatg	gaggacttcc	taccaattat	120											
	419	accacagggaa	agg				133											
	422	<210>	SEQ ID NO:	17														
	424	<211>	LENGTH:	53														
	426	<212>	TYPE:	PRT														
	428	<213>	ORGANISM:	Homo sapiens														
	432	<400>	SEQUENCE:	17														
	434	Gly	Gln	Leu	Pro	Pro	Gly	Lys	Pro	Glu	Ile	Phe	Lys	Ser	Pro	Phe	Cys	
	435	1			5		10			15								
	438	Arg	Ser	Pro	Asn	Lys	Glu	Thr	Phe	Thr	Glu	Ala	Arg	Pro	Gly	Thr	Asp	
	439				20			25			30							
	442	Gly	Gly	Leu	Pro	Thr	Asn	Lys	Pro	Ala	Asn	Tyr	Ser	Leu	Thr	Tyr	His	
	443				35			40			45							
	446	Arg	Glu	Gly	Thr	Lys												
	447				50													

*This is a
nucleotide
sequence*

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/900,063A

DATE: 06/12/2003
TIME: 08:07:21

Input Set : A:\EP.txt
Output Set: N:\CRF4\06122003\I900063A.raw

450 <210> SEQ ID NO: 18
452 <211> LENGTH: 132
454 <212> TYPE: DNA
456 <213> ORGANISM: Porcine
460 <400> SEQUENCE: 18
461 acagtcacct ccggggaaaaac ctgagatctt caaatgtcgt tctcccgaaa aggaaacatt 60
463 cgcctgctgg tggaaagccgg gggcggatgg aggacttctt accaactaga cgctgactta 120
465 ccacaaggaa gg 132

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/900,063A

DATE: 06/12/2003
TIME: 08:07:22

Input Set : A:\EP.txt
Output Set: N:\CRF4\06122003\I900063A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:14; N Pos. 36
Seq#:15; N Pos. 49, 67

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 13

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/900,063A

DATE: 06/12/2003

TIME: 08:07:22

Input Set : A:\EP.txt

Output Set: N:\CRF4\06122003\I900063A.raw

L:333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0

L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0

M:341 Repeated in SeqNo=15

STATISTICS SUMMARY DATE: 06/12/2003
PATENT APPLICATION: US/09/900,063A TIME: 08:07:22

Input Set : A:\EP.txt
Output Set: N:\CRF4\06122003\I900063A.raw

Application Serial Number: US/09/900,063A

Alpha or Numeric or Xml: Numeric

Application Class:

Application File Date: 07-06-2001

Art Unit: 1600

Software Application: PatentIN3.1

Total Number of Sequences: 18

Total Nucleotides: 2086

Total Amino Acids: 53

Number of Errors: 0

Number of Warnings: 3

Number of Corrections: 0

MESSAGE SUMMARY

341 W: 3 ((46) "n" or "Xaa" used)